- High Power CW Operation- 1000 milliwatts
- High Brightness- 100 µm
- Wavelength 780 ±3 nm Standard

The LDX-3110-780 laser diode is a high power, multimode, infrared laser diode. These InAlGaAs broad-area, gain-guided lasers are produced using MOCVD growth which offers high efficiency, low threshold current, and excellent reliability.

These devices are available on an open heatsink (C-mount) package. Other package options are available, including TO-3, 9.0mm, and HHL; please inquire.

Device ratings:

Parameter	Min.	Typ.	Max.	Units
Output Power @ 20 °C		1000	1200	mW
Threshold Current	300	450	600	mA
Operating Current at Rated Power	1300	1500	1700	mA
Operating Temperature	-20	20	50	•C

Device characteristics at 20°C and at 1000 mW output power:

Parameter	Min.	Typ.	Max.	Units
Forward Voltage	1.7	1.9	2.1	Volts
Wavelength	777	780	783	nm
Spectral Width		2	3	nm (FWHM)
Divergence- Parallel		7	9	degrees (FWHM)
Divergence- perpendicular	32	34	36	degrees (FWHM)
Polarization Ratio		>50:1		
Aperture Size		100 x 1		µm
Slope Efficiency	0.80	1.0	1.2	mW/mA

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